

IAP12 Rec'd PCT/PTO 16 MAR 2007

**IN THE UNITED STATES RECEIVING OFFICE
PATENT COOPERATION TREATY**

Application No.	: 10/502,470
Confirmation No.	: 4015
Applicant	: Ng et al.
371(c) Date	: July 23, 2004
Group Art Unit	: Not yet assigned
Examiner:	: Not yet assigned
Docket No.	: 007193-5
Customer No.	: 36,234

I hereby certify that, on the date shown below, this correspondence, along with any document stated as being enclosed, is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450

Date: 3-14-07


Greg McCallum

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Dear Sir:

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 C.F.R. Section 1.97(b).

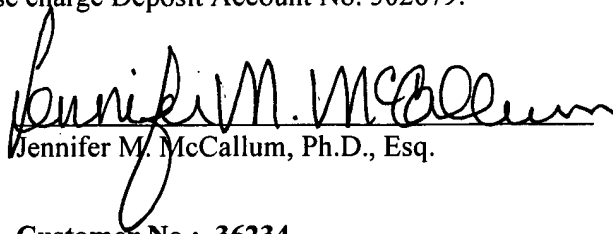
Enclosed is Form 1449 and 55 non-patent references. Applicants respectfully request that each of the cited information be expressly considered during the prosecution of this application and that the cited references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. If required, a copy of each reference is attached.

FEES

It is believed no fee is due. If any fee is due, please charge Deposit Account No. 502679.

Date:

3-14-07


Jennifer M. McCallum, Ph.D., Esq.

Reg. No.: 52,492

Tel. No.: 303-828-0655

Fax No.: 303-828-2938

Customer No.: 36234

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 1 of 7	Attorney Docket Number	007193-05

U.S. Patent Documents					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

Foreign Patent Documents					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
	1	Ambinder, R. F. et al., "Epstein-Barr virus as a therapeutic target in Hodgkin's disease and nasopharyngeal carcinoma," SEMINARS IN CANCER BIOLOGY, US, Aug 1996, Vol. 7, no. 4, pp. 217-226.	
	2	Bliek J, Maas Saskia, Ruijter JM, Hennekam RCM, Alders M, Westerveld A and Mannens MAM (2001) Increased tumour risk for BWS patients correlates with aberrant and not methylation: occurrence of methylation: occurrence of KCNQ10T1 hypomethylation in familial cases of BWS. <i>Hum Mol Genet</i> 10: 467-476	
	3	Brannan CI, et al. (1990) The product of the gene may function as an RNA. <i>Mol & Cell Biol</i> 10(1): 28-36	
	4	Brunkow ME and Tilghman SM (1991) Ectopic expression of the gene in mice causes prenatal lethality. <i>Genes Dev</i> 5: 1092-1101	
	5	Busson P, McCoy R, Sadler R, Gilligan K, Tursz T and Raab-Traub N (1992) Consistent transcription of the Epstein-Barr virus LMP2 gene in nasopharyngeal carcinoma. <i>J Virol</i> 66(5): 3257-3262	
	6	Casola S, Pedone, PV, Cavazzana AO, Basso G, Luksch R, d'Amore ES, Carli M, Bruni CB, Riccio A (1997) Expression and parental imprinting of the gene in human rhabdomyosarcoma. <i>Oncogene</i> 14: 1503-1510	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 2 of 7	Attorney Docket Number	007193-05

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
	7	Chen FF, Yan JJ, Lai WW, Jin YT and Su IJ (1998) Epstein- Barr virus-associated nonsmall cell lung carcinoma: as a distinct entity with better prognosis. <i>Cancer</i> 82(12): 2334- 2342	
	8	Chien G, Yuen PW, Kwong D and Kwong YL (2001) Comparative genomic hybridization analysis of nasopharygeal carcinoma: consistent patterns of genetic aberrations and clinicopathological correlations. <i>Cancer Genet. Cytogenet</i> 126: 63-67	
	9	Chow, Lillian S. N. et al., "Effect of p16 ^{INK4a} on chemosensitivity in nasopharyngeal carcinoma cells," <i>International Journal of Oncology</i> , vol. 17, no. 1, July 2000, pp. 135-140.	
	10	Eisen MB, Spellman PT, Brown PO and Botstein D (1998) Cluster analysis and display of genome-wide expression patterns. <i>Proc Natl Acad Sci USA</i> 95: 14863-14868	
	11	Fang Y, Guan X, Guo Y, Sham J, Deng M, Liang Q, Li H, Zhang H, Zhou H and Trent J (2001) Analysis of genetic alterations in primary nasopharyngeal carcinoma by comparative genomic hybridization. <i>Genes Chromosomes Cancer</i> 30: 254-260	
	12	Farrow DC, Vaughan TL, Berwick M, Lynch CF, Swanson GM and Lyon JL (1998) Diet and nasopharyngeal cancer in a low-risk population. <i>Int J Cancer</i> 78: 675-679	
	13	Feil R and Khosla S (1999) Genomic imprinting in mammals: an interplay between chromatin and DNA methylation? <i>Trends Genet</i> 15: 431-435	
	14	Feinberg AP (1999) Imprinting of a genomic domain of and loss of imprinting in cancer: an introduction. <i>Cancer Res</i> 59: 1743-1746	
	15	Fioretti F, D, Stoppacciaro A, Ramponi S, Ruco L, Minty A, Sozzani S, Garlanda C, A and Mantovani A (1998) Reduced tumorigenicity and augmented leukocyte infiltration after monocyte chemotactic protein-3 (MCP-3) gene transfer:	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 3 of 7	Attorney Docket Number	007193-05

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
		perivascular accumulation of dendritic cells in peritumoral tissue and neutrophil recruitment within the tumor. <i>J Immunol</i> 161: 342-346	
	16	Fung, L. F. et al., "Differential gene expression in nasopharyngeal carcinoma cells," LIFE SCIENCES, vol. 67, no. 8, 14 July 2000, pp. 923-936.	
	17	Gray, JW and Collins C (2000) Genome changes and gene expression in human solid tumours. <i>Carcinogenesis</i> 21(3): 443-452	
	18	Hao Y, Crenshaw T, Moulton T, Newcomb E and Tycko B (1993) Tumour-suppressor activity of H19 RNA. <i>Nature</i> 365: 764-767	
	19	Hatada I, Inazawa J, Abe T, Nakayama M, Kaneko Y, Jinno Y, Niikawa N, Ohashi H, Fukushima Y, Iida K, Yutani C, Takahashi S, Chiba Y, Ohishi S and Mukai, T (1996) Genomic imprinting of human p57KIP2 and its reduced expression in Wilms' tumors. <i>Hum Mol. Genet</i> 5(6): 783-788	
	20	Hatada I and Mukai T (1995) Genomic imprinting of p57KIP2, a cyclin-dependent kinase inhibitor, in mouse. <i>Nat Genet</i> 11: 204-206	
	21	Hengstler JG, Pilch H, Schmidt M, Dahlenburg H, Sagemuller J, Schiffer I, Oesch F, Knapstein PG, Kaina B and Tanner B (2001) Metallothionein expression in ovarian cancer in relation to histopathological parameters and molecular markers of prognosis. <i>Int J Cancer</i> 95: 121-127	
	22	Huang DP, Ho JH, Poon YF, Chew EC, Saw D, Lui M, Li CL, Mak LS, Lai SH and Lau (1980) Establishment of a cell line from a differentiated squamous carcinoma of the nasopharynx. <i>Int J Cancer</i> 26: 127-132	
	23	Huang YT, Sheen TS, Chen CL, Lu J, Chang Y, Chen JY and Tsai CH (1999) Profile of cytokine expression in nasopharyngeal carcinomas: a distinct expression of interleukin 1 in tumor and CD4+ T cells. <i>Cancer Res</i> 59: 1599-1605	
	24	Jayasurya A, Bay BH, Yap WM and Tan NG (2000) Correlation of metallothionein expression with apoptosis in nasopharyngeal carcinoma. <i>Br J Cancer</i> 82: 1198-1203	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 4 of 7	Attorney Docket Number	007193-05

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
	25	Joyce JA and Schofield PN (1998) Genomic imprinting and cancer. <i>Mol Pathol</i> 51: 185-190	
	26	Kim DK, Zhang L, Dzau VJ and Pratt RE (1994) a developmentally regulated gene, is reexpressed in rat vascular smooth muscle cells after injury. <i>J Clin Invest</i> 93: 355-360	
	27	Kwong, J. et al., (2002) promoter hypermethylation of multiple genes in nasopharyngeal carcinoma, <i>Clinical Cancer Research</i> 8:131-137.	
	28	Lee AWM, Poon YF, and Foo W (1992) Retrospective analysis of 5037 patients with nasopharyngeal carcinoma treated during 1976-1985. Overall survival and patterns of failure. <i>Int J Radiat Oncol Biol</i> 23(2): 261-270	
	29	Lee J, Gray A, Yuan J, Luoh S-M, Avraham H and Wood WI (1996) Vascular endothelial growth factor-related protein: a ligand and specific activator of the tyrosine kinase receptor Flt4. <i>Proc Natl Acad Sci</i> 93: 1988-1992	
	30	Li E, Beard C and Jaenisch R (1993) Role for DNA methylation in genomic imprinting. <i>Nature</i> 366: 362-365	
	31	Lo, Kwok-Wai et al., "Hypermethylation of the p16 gene in nasopharyngeal carcinoma," <i>Cancer Research</i> , vol. 56, no. 12, 1996, pp. 2721-2725.	
	32	Lo, Kwok-Wai et al, (2001) "High frequency of promoter hypermethylation of RASSF1A in nasopharyngeal carcinoma," <i>Cancer Research</i> , vol. 61 (10): 3877-3881.	
	33	Marks JE, Phillips JL, and Menck HR (1998) The National Cancer Data Base report on the relationship of race and national origin to the histology of nasopharyngeal carcinoma. <i>Cancer</i> 83(3): 582-588.	
	34	Matsuoka S, Edwards MC, Bai C, Parker S, Zhang P, Baldini A, Harper JW and Elledge SJ (1995) p57KIP2, a structurally distinct member of the Cdk inhibitor family, is a candidate tumor suppressor gene. <i>Genes Dev</i> 9: 650-662	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 5 of 7	Attorney Docket Number	007193-05

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
	35	Moulton T, Crenshaw T, Hao Y, Moosikasuwana J, Lin N, Dembitzer F, Hensle T, Weiss L, McMorro L, Loew T, et al. (1994) Epigenetic lesions at the locus in Wilms' tumour patients. <i>Nat Genet</i> 7: 440-447	
	36	Mutirangura A, Pornthanakasem W, Theamboonlers A, Sriuranpong V, Lertsanguansinch PVS, Voravud N, Supiyaphun P, and Poorvorawan Y (1998) Epstein-Barr viral DNA in serum of patients with nasopharyngeal carcinoma. <i>Clin Cancer Res</i> 4: 665-669	
	37	Neel HB 3rd (1985) Nasopharyngeal carcinoma. Clinical presentation, diagnosis, treatment, and prognosis. <i>Otolaryngol Clin North Am</i> 18(3): 479-490	
	38	Neel HB (1986) A prospective evaluation of patients with nasopharyngeal carcinoma: an overview. <i>J Otolaryngol</i> 15(3): 137-144	
	39	Pajusola K, Aprelikova Korhonen J, Kaipainen A, Pertovaara L, Alitalo R and Alitalo K (1992) receptor tyrosine kinase contains seven immunoglobulin-like loops and is expressed in multiple human tissues and cell lines. <i>Cancer Res</i> 52: 5738-5743	
	40	Paulsen M and Ferguson-Smith AC (2001) DNA methylation in genomic imprinting, development, and disease. <i>J Pathol</i> 195: 97-110	
	41	Pfeifer K, Philip AL and Tilghman SM (1996) The structural gene is required for transgene imprinting. <i>Proc Natl Acad Sci</i> 93: 13876-13883	
	42	Shtivelman E (1997) A link between metastasis and resistance to apoptosis of variant small cell lung carcinoma. <i>Oncogene</i> 14: 2167-2173	
	43	Sigel G, Schillinger M, Henninger K and Bauer G (1994) IgA directed against early antigen of Epstein-Barr virus is no specific marker for the diagnosis of nasopharyngeal carcinoma. <i>J Med Virol</i> 43: 222-227	
	44	Sizhong Z, Xiukung G and Yi Z (1983) Cytogenetic studies on an epithelial cell +line derived from poorly differentiated nasopharyngeal carcinoma. <i>Int J Cancer</i> 31: 587-590	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 6 of 7	Attorney Docket Number	007193-05

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
	45	Sleutels F, Barlow DP and R (2000) The uniqueness of the imprinting mechanism. <i>Curr Opin Genet Dev</i> 10: 229-233	
	46	Taniguchi T, Sullivan ML, Ogawa O and Reeve AE (1995) Epigenetic changes encompassing the 1GF2/H19 locus associated with relaxation of IGF2 imprinting and silencing of H19 in Wilms tumor. <i>Proc Natl Acad Sci USA</i> 92: 2159-2163	
	47	Thorvaldsen JL, Duran KL and Bartolomei MS (1998) Deletion of the differentially methylated domain results in loss of imprinted expression of and Igf2. <i>Genes Dev</i> 12: 3693-3702	
	48	Tremblay KD, Duran KL and Bartolomei MS (1997) A kilobase-pair region of the imprinted mouse gene exhibits exclusive paternal methylation throughout development. <i>Mol Cell Biol</i> 17(18): 4322-4329	
	49	Wang, G. L. et al, "Inhibiting tumorigenic potential by restoration of p16 in nasopharyngeal carcinoma," <i>British Journal of Cancer</i> , Scotland, Dec. 1999, vol. 81, no. 7, pp. 1122-1126.	
	50	Wang, Lihong, et al., "Relationship between expression of p16 protein and prognosis in carcinoma of nasopharynx," <i>Journal of West China University of Medical Sciences</i> , vol. 30, no. 4, Dec 1999, pp. 394-396.	
	51	Widschwendter, Martin et al., "The potential prognostic, predictive, and therapeutic values of DNA methylation in cancer," <i>Clinical Cancer Research</i> , Jan 2002, vol. 8, no. 1, pp. 17-21.	
	52	Williams, HK (2000) Molecular pathogenesis of oral squamous carcinoma. <i>J. Clin Mol Pathol</i> 53: 165-172	
	53	Xiao H, Palhan V, Yang Y and Roeder RG (2000) TIP30 has an intrinsic kinase activity required for up-regulation of a subset of apoptotic genes. <i>EMBO J</i> 19(5): 956-963	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/502,470
	Filing Date	07/23/2004
	First Named Inventor	Aylwin Ng
	Art Unit	1614
	Examiner Name	Unknown
Sheet 7 of 7	Attorney Docket Number	007193-05

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or county where published.	T ²
	54	Xie, Lu et al., "Identification of differentially expressed genes in nasopharyngeal carcinoma by means of the Atlas human cancer cDNA expression array," <i>Journal of Cancer Research and Clinical Oncology</i> , vol. 126, no.7, July 2000, pp. 400-406.	
	55	Zhan S, Shapiro DN and Helman (1994) Activation of an imprinted allele of the insulin-like growth factor II gene implicated in rhabdomyosarcoma. <i>J Clin Invest</i> 94: 445-448	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--